

# **Exhibit B**

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 Usa

Voice: 508-881-7100  
 Fax: 508-881-7105

**INVOICE**

000001

Invoice Number: 8410  
 Invoice Date: 6/28/12  
 Page: 1

NEW ENGLAND COMPOUNDING CENTER  
 ATTEN: ACCOUNTS PAYABLE  
 697 WAVERLY STREET  
 FRAMINGHAM, MA 01702

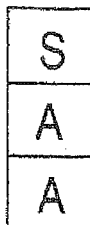
Customer ID: NECC

Customer PO	Payment Terms	Sales Rep ID	Due Date
	Net 30 Days		7/28/12

Description	
TESTING AND CERTIFICATION OF THIRTEEN HOODS, FOUR ISOLATORS AND THE CLEANROOM 1 SUITE. WORK COMPLETED ON 6-22-12 FOR ANNETTE ROBINSON.	2,700.00
<b>PAID</b>	

Subtotal	2,700.00
Sales Tax	
Total Invoice Amount	2,700.00
Payment/Credit Applied	

Check/Credit Memo No:



000218

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

CLEANROOM 1 CERTIFICATION REPORT: PARTICLE COUNTS  
 PRESSURE DIFFERENTIALS  
 TEMPERATURE & REL. HUMIDITY

FREIGHT	FT3 / M3	MIDDLE	FT3 / M3	PEOPLE	FT3 / M3
276 / 9,714	313 / 11,013	126 / 4,440	220 / 7,761	149 / 5,224	
243 / 8,538	160 / 5,622	203 / 7,167	562 / 19,768	69 / 2,447	
124 / 4,369	224 / 7,871	287 / 10,104	343 / 12,092	179 / 6,293	
		483 / 17,014		236 / 8,321	

NEW ENGLAND COMPOUNDING  
 50 FOUNTAIN STREET  
 FRAMINGHAM, MA 01702

TESTING DATE: 6-22-12

CLEANROOM 1 CUBIC FEET / CUBIC METERS

105 / 3,706 44 / 1,573 100 / 3,531 99 / 3,469 75 / 2,629

34 / 1,214 8 / 280 122 / 4,311 89 / 3,126 96 / 3,368

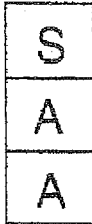
209 / 7,377 120 / 4,230 85 / 2,991 126 / 4,428 105 / 3,707

PARTICLES MEASURED AND RECORDED AT .5 MICRON SIZE IN CUBIC FEET AND CUBIC METERS OF AIR  
 IN ACCORDANCE WITH ISO 14644-1.  
 CLASS 6 LIMITS: CUBIC FEET - 1,000 / CUBIC METERS - 35,200  
 CLEANROOM, FREIGHT, MIDDLE AND PEOPLE ROOMS MEET ISO CLASS 6 DESIGNATION.  
 ALL TESTING WAS PERFORMED WITH THE ROOMS AT REST.

PRESSURE DIFFERENTIALS: CLEANROOM > PEOPLE - .0010 POS  
 MIDDLE > PEOPLE - .0013 POS  
 CLEANROOM > MIDDLE - .0010 POS  
 MIDDLE > FREIGHT - .009 POS  
 CLEANROOM > FREIGHT - .041 POS  
 CLEANROOM > AMBIENT - .039 POS  
 PEOPLE > AMBIENT - .028 POS

TEMPERATURE: 63.5° REL. HUMIDITY: 48.7%

TECHNICIAN: *Steve O'Neil*



000219

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

CLEANROOM 1 CERTIFICATION REPORT: SUPPLY CFM  
 AIR CHANGES PER HOUR

FREIGHT	AC / HR: 18		AC / HR: 36		MIDDLE	AC / HR: 60		PEOPLE
	1 - 428		4 - 356		1 - 343	1 - 371		
			5 - 386		2 - 286	2 - 310		
	2 - 429		6 - 382		3 - 395	3 - 356		
			7 - 320			4 - 397		
						5 - 315		
						6 - 307		
	AVG: 429	CFM: 857	AVG: 353	CFM: 2,648		AVG: 343		
						CFM: 2,056		
CLEANROOM	1 - 410	9 - 377	22 - 377	31 - 359	46 - 380	61 - 321		
			23 - 353	32 - 347	47 - 353	62 - 358		
	2 - 362	10 - 290		33 - 325	48 - 381	63 - 349		
		11 - 327	24 - 332		49 - 328	64 - 412		
		12 - 321	25 - 392	34 - 341				
	3 - 395	13 - 362		35 - 378	50 - 416	65 - 462		
		14 - 391		36 - 362	51 - 347	66 - 351		
	4 - 398	15 - 378		37 - 330	52 - 369	67 - 321		
		16 - 350		38 - 338	53 - 372	68 - 402		
	5 - 420	17 - 408	26 - 227	39 - 330	54 - 355	69 - 332		
		18 - 350	27 - 377	40 - 345	55 - 350	70 - 334		
	6 - 362	19 - 295	28 - 352	41 - 333	56 - 335	71 - 323		
		20 - 356	29 - 172	42 - 313	57 - 302	72 - 411		
	7 - 410	21 - 388	30 - 400	43 - 390	58 - 335	73 - 351		
				44 - 289	59 - 350	74 - 357		
	8 - 322			45 - 298	60 - 345	75 - 386		
	AVG CFM: 352	AC / HR: 75						

NEW ENGLAND COMPOUNDING  
 50 FOUNTAIN STREET  
 FRAMINGHAM, MA 01702

TESTING DATE: 6-22-12

SUPPLY CFM:	CLEANROOM:	FREIGHT:	MIDDLE:	PEOPLE:
28,419	28,419	857	2,468	2,056
ROOM VOL.:	21,161 FT <sup>3</sup>	3,090 FT <sup>3</sup>	4,075 FT <sup>3</sup>	2,065 FT <sup>3</sup>
AIR CHGS / HR:	75	17	36	60

TECHNICIAN: *Steve O'Neil*

000220

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**ISOTECH DESIGN MICROSPHERE MICROENVIRONMENT CERTIFICATION REPORT :**  
**PARTICLE COUNT RECORDINGS**

FILTER HOUSING : DESIGN FILTRATION INC. - SELF CONTAINED FAN POWERED HEPA UNITS  
 MODEL # : DA4-1H DA3-1H  
 SERIAL # : 820 822

#1	#2
0	0 0
0	0 0

NEW ENGLAND COMPOUNDING  
 697 WAVERLY STREET  
 FRAMINGHAM, MA. 01702

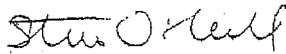
TESTING DATE : 6-22-12

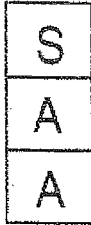
TEST # : 20272

PARTICLES MEASURED AT .5 MICRON SIZE AND RECORDED IN CUBIC  
 METERS OF AIR IN ACCORDANCE WITH ISO STANDARD 14644-1.

BOTH CHAMBERS HAVE BEEN CERTIFIED AS ISO CLASS 4.

TECHNICIAN :





000221

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**ISOTECH DESIGN MICROSPHERE MICROENVIRONMENT CERTIFICATION REPORT :**  
**AIRFLOW PROFILES / FILTER INTEGRITY TEST**

FILTER HOUSING : DESIGN FILTRATION INC. - SELF CONTAINED FAN POWERED HEPA UNITS  
 MODEL # : DA4-1H DA3-1H  
 SERIAL # : 820 822

#1		#2			
81	80	82	91	93	91
79	85				
85	92	86	80	82	90
86	80	79	85	95	92
84		87			
20%		20%			

NEW ENGLAND COMPOUNDING  
 697 WAVERLY STREET  
 FRAMINGHAM, MA. 01702

TESTING DATE : 6-22-12

TEST # : 20272

AVG LFM :  
 BLOWER SPEED :

AIRFLOW RANGE : 72-108 LFM AVERAGE

FILTER INTEGRITY LEAK TEST : NO PENETRATION OF GREATER THAN .01%

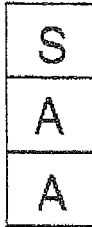
FILTER # : PENETRATION % : PASS / FAIL :

#1 - .0018% PASS

#2 - .0020% PASS

CHANGE PREFILTERS (16" X 20" X 2") AT LEAST ANNUALLY.

TECHNICIAN : *Steve O'Neil*



000222

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

ISOTECH DESIGN MICROSPHERE MICROENVIRONMENT CERTIFICATION REPORT :  
 PARTICLE COUNT RECORDINGS

FILTER HOUSING : DESIGN FILTRATION INC. - SELF CONTAINED FAN POWERED HEPA UNITS  
 MODEL # : 41103 DF 41103 DF 41103 DF 41103 DF 41103 DF  
 SERIAL # : 102928 102927 102929 102933 102897

#1	#2	#3	#4	#5
0	0	0	0	0
0	0	0	0	0

NEW ENGLAND COMPOUNDING  
 897 WAVERLY STREET  
 FRAMINGHAM, MA. 01702

TESTING DATE : 6-22-12

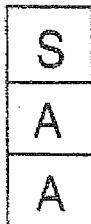
TEST # : 20158

PARTICLES MEASURED AT .5 MICRON SIZE AND RECORDED IN CUBIC METERS OF AIR  
 IN ACCORDANCE WITH ISO STANDARD 14644-1.

THIS AREA, CONSISTING OF FIVE FILTERS, HAS BEEN CERTIFIED AS MEETING ISO CLASS 4.

TECHNICIAN :





000223

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**ISOTECH DESIGN MICROSPHERE MICROENVIRONMENT CERTIFICATION REPORT :**  
**AIRFLOW PROFILES / FILTER INTEGRITY TEST**
**FILTER HOUSING :** DESIGN FILTRATION INC. - SELF CONTAINED FAN POWERED HEPA UNITS

**MODEL #:** 41103 DF    41103 DF    41103 DF    41103 DF    41103 DF  
**SERIAL #:** 102928    102927    102929    102933    102897

102525		102527		102529		102533		102537	
#1		#2		#3		#4		#5	
52	53	51	56	52	53	53	56	51	53
50	56	54	51	52	51	54	61	52	58
52	56	53	57	58	52	53	58	57	54
51	55	50	54	54	56	58	60	50	52
53		53		54		57		53	
10%		10%		20%		15%		15%	

NEW ENGLAND COMPOUNDING  
 697 WAVERLY STREET  
 FRAMINGHAM, MA. 01702

TESTING DATE : 6-22-12

TEST # : 20158

AIRFLOW RANGE : 50-60 LFM AVERAGE

FILTER INTEGRITY LEAK TEST : NO PENETRATION OF GREATER THAN .01%

FILTER # :    PENETRATION % :    PASS / FAIL :

#1 -    .0013%    PASS

#2 -    .0012%    PASS

#3 -    .0004%    PASS

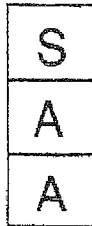
#4 -    .0006%    PASS

#5 -    .0011%    PASS

MAIN CHAMBER PRESSURE: .10 POS

TECHNICIAN : *Steve O'Neil*





000224

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**ISOTECH DESIGN MICROSPHERE MICROENVIRONMENT CERTIFICATION REPORT :**  
**PARTICLE COUNT RECORDINGS**

FILTER HOUSING : DESIGN FILTRATION INC. - SELF CONTAINED FAN POWERED HEPA UNITS  
 MODEL # : 41103 DF 41103 DF 41103 DF 41103 DF 41103 DF  
 SERIAL # : 102911 102931 102912 102915 102926

#1	#2	#3	#4	#5
0	0	0	0	0
0	0	0	0	0

NEW ENGLAND COMPOUNDING  
 697 WAVERLY STREET  
 FRAMINGHAM, MA. 01702

TESTING DATE : 6-22-12

TEST # : 20268

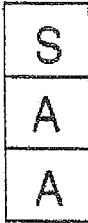
PARTICLES MEASURED AT .5 MICRON SIZE AND RECORDED IN CUBIC METERS OF AIR  
 IN ACCORDANCE WITH ISO STANDARD 14644-1.

THIS AREA, CONSISTING OF FIVE FILTERS, HAS BEEN CERTIFIED AS MEETING ISO CLASS 4.

TECHNICIAN :



000225

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**ISOTECH DESIGN MICROSPHERE MICROENVIRONMENT CERTIFICATION REPORT :**  
**AIRFLOW PROFILES / FILTER INTEGRITY TEST**

FILTER HOUSING : DESIGN FILTRATION INC. - SELF CONTAINED FAN POWERED HEPA UNITS  
 MODEL # : 41103 DF 41103 DF 41103 DF 41103 DF 41103 DF  
 SERIAL # : 102911 102931 102912 102915 102926

#1		#2		#3		#4		#5	
57	62	57	50	63	61	62	52	57	54
56	61	53	48	53	58	60	51	51	58
54	50	51	50	59	57	53	55	50	56
56	51	58	50	56	52	52	60	54	56
AVG LFM : 58		50		61		53		53	
SLOWER SPEED : 5%		10%		10%		10%		10%	

NEW ENGLAND COMPOUNDING  
 697 WAVERLY STREET  
 FRAMINGHAM, MA. 01702

TESTING DATE : 6-22-12

TEST # : 20268

AIRFLOW RANGE : 50-60 LFM AVERAGE

FILTER INTEGRITY LEAK TEST : NO PENETRATION OF GREATER THAN .01%

FILTER # : PENETRATION % : PASS / FAIL :

#1 - .0013% PASS

#2 - .0014% PASS

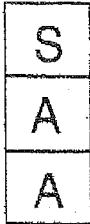
#3 - .0008% PASS

#4 - .0005% PASS

#5 - .0010% PASS

MAIN CHAMBER PRESSURE: .140 POS.

TECHNICIAN : *Steve O'Neil*



000226

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**ISOTECH DESIGN MICROSPHERE MICROENVIRONMENT CERTIFICATION REPORT :**  
**PARTICLE COUNT RECORDINGS**

FILTER HOUSING : DESIGN FILTRATION INC. - SELF CONTAINED FAN POWERED HEPA UNITS  
 MODEL # : MICROSPHERE  
 SERIAL # : 03-5G08P02

#1	#2	#3	#4	#5
0	0	0	0	0
0	0	0	0	0

NEW ENGLAND COMPOUNDING  
 697 WAVERLY STREET  
 FRAMINGHAM, MA. 01702

TESTING DATE : 6-22-12

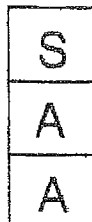
TEST # : 19672

PARTICLES MEASURED AT .5 MICRON SIZE AND RECORDED IN CUBIC METERS OF AIR  
 IN ACCORDANCE WITH ISO STANDARD 14644-1.

THIS AREA, CONSISTING OF FIVE FILTERS, HAS BEEN CERTIFIED AS MEETING ISO CLASS 4.

TECHNICIAN :

*Steve O'Leary*



000227

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**ISOTECH DESIGN MICROSPHERE MICROENVIRONMENT CERTIFICATION REPORT :**  
**AIRFLOW PROFILES / FILTER INTEGRITY TEST**

FILTER HOUSING : DESIGN FILTRATION INC. - SELF CONTAINED FAN POWERED HEPA UNITS  
 MODEL # : MICROSPHERE  
 SERIAL # : 03-5G08P02

#1		#2		#3		#4		#5	
61	60	67	63	61	54	58	61	58	53
62	58	61	58	67	57	64	62	66	54
54	61	62	64	58	53	61	63	59	61
59	65	61	61	58	59	61	67	64	65
60		62		58		62		60	
15%		15%		15%		15%		15%	

NEW ENGLAND COMPOUNDING  
 697 WAVERLY STREET  
 FRAMINGHAM, MA. 01702

TESTING DATE : 6-22-12

TEST # : 19672

AVG LFM :

LOWER SPEED :

AIRFLOW RANGE : 50-70 LFM AVERAGE

FILTER INTEGRITY LEAK TEST : NO PENETRATION OF GREATER THAN .01%

FILTER # : PENETRATION % : PASS / FAIL :

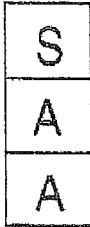
#1 -	.0012%	PASS
#2 -	.0013%	PASS
#3 -	.0017%	PASS
#4 -	.0009%	PASS
#5 -	.0015%	PASS

MAIN CHAMBER PRESSURE: .215 POS.

PREFILTERS ARE CLEAN. CLEAN OR REPLACE PREFILTERS AT LEAST ANNUALLY.

TECHNICIAN : *Stuckey*

000228

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE SERVICE REPORT**

CLIENT: *NCCC* TEST #: *18663*  
 ADDRESS: ID #:  
 CITY, STATE: MODEL #: *FS 10300*  
 CONTACT: SERIAL #: *1LN-11-02*  
 TEL #: LOCATION: *Classroom 1*  
 TEST DATE: *6-22-12* NEW/USED: *USED*  
 RECALL DATE: *12-31-12* PASS/FAIL: *PASSED*

**AIRFLOW VELOCITY**ACCEPTANCE RANGE: *60-90* FPMR1: *68 74 72 81 76*R2: *81 73 70 67 68*R3: *64 71 68 73 69**8" x 32" = 1.28*L: *64*H: *81*AVG FPM: *72 - 128 CFM*

AIRFLOW GAUGE:

IOW:

MOTOR SPEED: *40* %**TEST RESULTS****AIRFLOW VELOCITY:** PASSED, AVERAGE FPM IS WITHIN 90 +/- 10 FPM.**FILTER LEAK TEST:** PASSED, PENETRATION DOES NOT EXCEED 0.01% AT ANY POINT.**AIRFLOW SMOKE PATTERNS:** PASSED, NO SMOKE ENTERED THE WORK SURFACE;  
THERE ARE NO DEAD SPOTS OR REFLUX OVER THE WORK SURFACE.**REFERENCE STANDARDS:** IES-RP-CC 002.2; IES-RP-CC 021.1**TESTING INSTRUMENTS:** CALIBRATED: NIST #: ID # USED:

AVM430-A, AVM430751001 4-12-11 822/272103 A1:

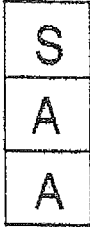
AVM430-A, AVM430803002 5-03-11 822/272103 A2:

AVM430-A, AVM431139001 9-20-11 822/249620 *A3*:

AXD620, AXD62114001 9-27-11 822/272103 A4:

ATI TDA-2G, 11119 11-08-11 822/272103 *A5*:**COMMENTS:**☒ NO ADJUSTMENTS REQUIRED AT THIS TIME.☐ HOOD FAILED; ACTION REQUIRED.☐ PREFILTER(S) WITHIN TOLERANCE. ☐ PREFILTER(S) DIRTY; CLEAN OR REPLACE.☐ INCREASED / DECREASED MOTOR BLOWER SPEED TO REBALANCE AIRFLOW.**CERTIFIER:***Steve O'Brien*

000229

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE SERVICE REPORT**

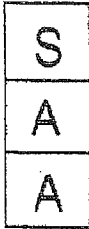
CLIENT: *NECC* TEST #: *18661*  
 ADDRESS: ID #:  
 CITY, STATE: MODEL #: *PS10300*  
 CONTACT: SERIAL #: *11-N-11-01*  
 TEL #: LOCATION: *CleanRoom 1*  
 TEST DATE: *6-22-12* NEW/USED: *USED*  
 RECALL DATE: *12-31-12* PASS/FAIL: *PASSED*

**AIRFLOW VELOCITY**ACCEPTANCE RANGE: *60-90* FPMR1: *71 66 81 91 77*R2: *73 81 88 78 62*R3: *76 77 75 63 90*L: *62* H: *91* AVG FPM: *77* - *136 CFM*AIRFLOW GAUGE: *N/A* LOW: MOTOR SPEED: *50* %*8" x 32" = 1.78 ft<sup>2</sup>***TEST RESULTS****AIRFLOW VELOCITY:** PASSED, AVERAGE FPM IS WITHIN 90 +/- 10 FPM.**FILTER LEAK TEST:** PASSED, PENETRATION DOES NOT EXCEED 0.01% AT ANY POINT.**AIRFLOW SMOKE PATTERNS:** PASSED, NO SMOKE ENTERED THE WORK SURFACE;  
THERE ARE NO DEAD SPOTS OR REFLUX OVER THE WORK SURFACE.**REFERENCE STANDARDS:** IES-RP-CC 002.2; IES-RP-CC 021.1**TESTING INSTRUMENTS: CALIBRATED: NIST #: ID # USED:**

AVM430-A, AVM430751001	4-12-11	822/272103	A1:
AVM430-A, AVM430803002	5-03-11	822/272103	A2:
AVM430-A, AVM431139001	9-20-11	822/249620	<u>A3:</u>
AXD620, AXD62114001	9-27-11	822/272103	A4:
ATI TDA-2G, 11119	11-08-11	822/272103	<u>A5:</u>

**COMMENTS:**☒ NO ADJUSTMENTS REQUIRED AT THIS TIME.☐ HOOD FAILED; ACTION REQUIRED.☐ PREFILTER(S) WITHIN TOLERANCE. ☐ PREFILTER(S) DIRTY; CLEAN OR REPLACE.☐ INCREASED / DECREASED MOTOR BLOWER SPEED TO REBALANCE AIRFLOW.**CERTIFIER:***Steve O'Neil*

000230

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE SERVICE REPORT**CLIENT: *NELC*TEST #: *18662*

ADDRESS:

ID #:

CITY, STATE:

MODEL #: *FS 10300*

CONTACT:

SERIAL #: *04-515-01*

TEL #:

LOCATION: *CleanRoom 2*TEST DATE: *6-22-12*NEW/USED: *Used*RECALL DATE: *12-31-12*PASS/FAIL: *PASSED***AIRFLOW VELOCITY**ACCEPTANCE RANGE: *60-90* FPMR1: *94 82 68 61 73*R2: *78 71 67 82 84*R3: *90 81 71 66 64**8" x 32" = 1.78 ft<sup>2</sup>*L: *61*H: *94*AVG FPM: *76 - 134 CFM*AIRFLOW GAUGE: *NA*

IOW:

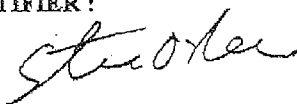
MOTOR SPEED: *50* %**TEST RESULTS****AIRFLOW VELOCITY:** PASSED, AVERAGE FPM IS WITHIN 90 +/- 10 FPM.**FILTER LEAK TEST:** PASSED, PENETRATION DOES NOT EXCEED 0.01% AT ANY POINT.**AIRFLOW SMOKE PATTERNS:** PASSED, NO SMOKE ENTERED THE WORK SURFACE;  
THERE ARE NO DEAD SPOTS OR REFLUX OVER THE WORK SURFACE.**REFERENCE STANDARDS:** IES-RP-CC 002.2; IES-RP-CC 021.1**TESTING INSTRUMENTS:** CALIBRATED: NIST #: ID # USED:

AVM430-A, AVM430751001 4-12-11 822/272103 A1:

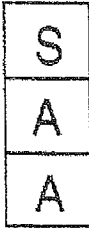
AVM430-A, AVM430803002 5-03-11 822/272103 A2:

AVM430-A, AVM431139001 9-20-11 822/249620 *A3*

AXD620, AXD62114001 9-27-11 822/272103 A4:

ATI TDA-2G, 11119 11-08-11 822/272103 *A5***COMMENTS:**☒ NO ADJUSTMENTS REQUIRED AT THIS TIME.☐ HOOD FAILED; ACTION REQUIRED.☐ PREFILTER(S) WITHIN TOLERANCE. ☐ PREFILTER(S) DIRTY; CLEAN OR REPLACE.☐ INCREASED / DECREASED MOTOR BLOWER SPEED TO REBALANCE AIRFLOW.**CERTIFIER:**


000231

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE SERVICE REPORT**

CLIENT: **NECC** TEST #: **19031**  
 ADDRESS: ID #:   
 CITY, STATE: MODEL #: **FS10300M**  
 CONTACT: SERIAL #: **05-M-17-15**  
 TEL #: LOCATION: **CLW Rm. 1**  
 TEST DATE: **6-22-12** NEW/USED: **USED**  
 RECALL DATE: **12-30-12** PASS/FAIL: **PASS**

**AIRFLOW VELOCITY**

ACCEPTANCE RANGE: **60-90** FPM **AD: 8" x 32" = 1.78**

R1:

R2:

R3:

L:

H:

AVG FPM:

AIRFLOW GAUGE:

IOW:

MOTOR SPEED:

**TEST RESULTS**

**AIRFLOW VELOCITY:** PASSED, AVERAGE FPM IS WITHIN 90 +/- 10 FPM.

**FILTER LEAK TEST:** PASSED, PENETRATION DOES NOT EXCEED 0.01% AT ANY POINT.

**AIRFLOW SMOKE PATTERNS:** PASSED, NO SMOKE ENTERED THE WORK SURFACE;  
 THERE ARE NO DEAD SPOTS OR REFLUX OVER THE WORK SURFACE.

**REFERENCE STANDARDS:** IES-RP-CC 002.2; IES-RP-CC 021.1

**TESTING INSTRUMENTS:** CALIBRATED: NIST #: ID # USED:

AVM430-A, AVM430751001	4-12-11	822/272103	A1:
AVM430-A, AVM430803002	5-03-11	822/272103	A2:
AVM430-A, AVM431139001	9-20-11	822/249620	A3:
AXD620, AXD62114001	9-27-11	822/272103	A4:
ATI TDA-2G, 11119	11-08-11	822/272103	A5:

**COMMENTS:**

☒ NO ADJUSTMENTS REQUIRED AT THIS TIME.

☐ HOOD FAILED; ACTION REQUIRED.

☐ PREFILTER(S) WITHIN TOLERANCE. ☐ PREFILTER(S) DIRTY; CLEAN OR REPLACE.

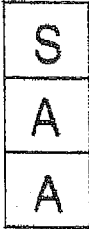
☐ INCREASED / DECREASED MOTOR BLOWER SPEED TO REBALANCE AIRFLOW.

**CERTIFIER:**

*Paul O'Neill*



000232

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE SERVICE REPORT**

CLIENT: **NECC** TEST #: **20269**  
 ADDRESS: ID #: **H0R2-2C**  
 CITY, STATE: MODEL #: **EG 8252**  
 CONTACT: SERIAL #: **91437**  
 TEL #: LOCATION: **CLW Rm. 1**  
 TEST DATE: **6-22-12** NEW/USED: **USED**  
 RECALL DATE: **12-31-12** PASS/FAIL: **PASS**

**AIRFLOW VELOCITY**ACCEPTANCE RANGE: **90-110** FPM

R1: 93 96 98 97	90 106 95 98
R2: 97 89 95 106	87 92 99 96
R3: 97 103 105 98	96 107 104 110
L: 87 H: 110	AVG FPM: 98

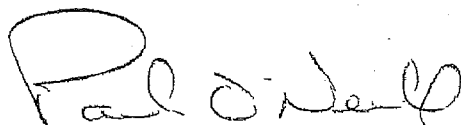
AIRFLOW GAUGE: **N/A** LOW: MOTOR SPEED **20/20%****TEST RESULTS**

**AIRFLOW VELOCITY:** PASSED, AVERAGE FPM IS WITHIN 90 +/- 10 FPM.  
**FILTER LEAK TEST:** PASSED, PENETRATION DOES NOT EXCEED 0.01% AT ANY POINT.  
**AIRFLOW SMOKE PATTERNS:** PASSED, NO SMOKE ENTERED THE WORK SURFACE;  
 THERE ARE NO DEAD SPOTS OR REFLUX OVER THE WORK SURFACE.  
**REFERENCE STANDARDS:** IES-RP-CC 002.2; IES-RP-CC 021.1

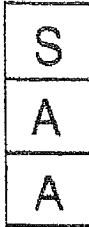
TESTING INSTRUMENTS:	CALIBRATED:	NIST #:	ID # USED:
AVM430-A, AVM430751001	4-12-11	822/272103	A1:
AVM430-A, AVM430803002	5-03-11	822/272103	A2:
AVM430-A, AVM431139001	9-20-11	822/249620	A3:
AXD620, AXD62114001	9-27-11	822/272103	A4:
ATI TDA-2G, 11119	11-08-11	822/272103	A5:

**COMMENTS:**

- ☒ NO ADJUSTMENTS REQUIRED AT THIS TIME.  
☐ HOOD FAILED; ACTION REQUIRED.  
☒ PREFILTER(S) WITHIN TOLERANCE. ☐ PREFILTER(S) DIRTY; CLEAN OR REPLACE.  
☐ INCREASED / DECREASED MOTOR BLOWER SPEED TO REBALANCE AIRFLOW.

**CERTIFIER:**


Certification and Repair of Clean Rooms and Laminar Flow Equipment



000233

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE**  
**PARTICLE COUNT RECORDINGS**

CLIENT: **NECC**  
 ID #: **HORZ 2C**  
 MODEL #: **EG 8252**  
 SERIAL #: **91437**  
 LOCATION: **CLN RM. 1**

TEST #: **20269**  
 TEST DATE: **6-22-12**  
 RECALL DATE: **12-31-12**  
 NEW/USED: **USED**  
 PASS/FAIL: **PASS**

**WORK SURFACE AREA**

B.5:   
 F.5:   
PARTICLES PER CUBIC METERS

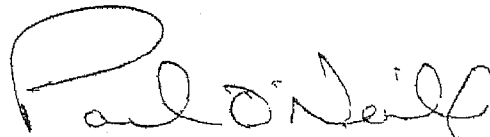
  
  
PARTICLES PER CUBIC FEET

**TEST RESULTS**

**PASS / FAIL :** THIS HOOD IS CERTIFIED AS MEETING ISO CLASS 5 IN ACCORDANCE WITH ISO STANDARD 14644-1. THE MAXIMUM PARTICLE LIMIT FOR COMPLIANCE TO ISO CLASS 5 AT .5 MICRON SIZE IS 3520 PARTICLES PER CUBIC METER AND 100 PARTICLES PER CUBIC FOOT.

THE SAMPLING RATE IS 1 CFM. THE LOCATIONS SAMPLED WERE APPROXIMATELY SIX INCHES FROM THE FRONT AND BACK OF THE UNIT AND SPACED EVENLY FROM SIDE TO SIDE.

TESTING INSTRUMENTS	CALIBRATED	NIST #	ID # USED
LWS PARTICLE COUNTER HH 3013, 111160001	11-08-11	822/272103	<b>A1 :</b>
MET-ONE PARTICLE COUNTER 3313-LLD-SS, 050601026	10-04-11	822/271458	A2 :

**CERTIFIER:**


000234

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE SERVICE REPORT**

CLIENT: **NECC** TEST #: **20270**  
 ADDRESS: ID #: **H0R2 2B**  
 CITY, STATE: MODEL #: **EG 8252**  
 CONTACT: SERIAL #: **91436**  
 TEL #: LOCATION: **CLW RM.1**  
 TEST DATE: **6-22-12** NEW/USED: **USED**  
 RECALL DATE: **12-31-12** PASS/FAIL: **PASS**

**AIRFLOW VELOCITY**ACCEPTANCE RANGE: **90 - 110** FPM

R1: 91 88 97 102	98 95 108 94
R2: 106 92 94 99	97 106 99 95
R3: 96 94 108 97	106 102 98 108
L: 88	H: 108

AVG FPM: **99**

AIRFLOW GAUGE: **N/A** IOW: MOTOR SPEED: **25/25%**

**TEST RESULTS**

**AIRFLOW VELOCITY:** PASSED, AVERAGE FPM IS WITHIN 90 +/- 10 FPM.  
**FILTER LEAK TEST:** PASSED, PENETRATION DOES NOT EXCEED 0.01% AT ANY POINT.  
**AIRFLOW SMOKE PATTERNS:** PASSED, NO SMOKE ENTERED THE WORK SURFACE;  
 THERE ARE NO DEAD SPOTS OR REFLUX OVER THE WORK SURFACE.  
**REFERENCE STANDARDS:** IES-RP-CC 002.2; IES-RP-CC 021.1

TESTING INSTRUMENTS:	CALIBRATED:	NIST #:	ID # USED:
AVM430-A, AVM430751001	4-12-11	822/272103	A1:
AVM430-A, AVM430803002	5-03-11	822/272103	<b>A2:</b>
AVM430-A, AVM431139001	9-20-11	822/249620	A3:
AXD620, AXD62114001	9-27-11	822/272103	A4:
ATI TDA-2G, 11119	11-08-11	822/272103	<b>A5:</b>

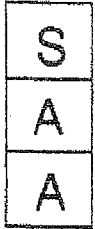
**COMMENTS:**

- ☒ NO ADJUSTMENTS REQUIRED AT THIS TIME.  
☐ HOOD FAILED; ACTION REQUIRED.  
☒ PREFILTER(S) WITHIN TOLERANCE. ☐ PREFILTER(S) DIRTY; CLEAN OR REPLACE.  
☐ INCREASED / DECREASED MOTOR BLOWER SPEED TO REBALANCE AIRFLOW.

CERTIFIER:

*Paul O'Neill*

000235

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE  
 PARTICLE COUNT RECORDINGS**

CLIENT:	NECC	TEST #:	20270
ID #:	HORZ-2B	TEST DATE:	6-22-12
MODEL #:	EG 8252	RECALL DATE:	12-31-12
SERIAL #:	91436	NEW/USED:	USED
LOCATION:	CLN RM. 1	PASS/FAIL:	PASS

**WORK SURFACE AREA**

B.5:	<u>0 0 2 0</u>	<u>0 2 2 0</u>
F.5:	<u>0 2 2 0</u>	<u>0 2 2 0</u>
	<u>PARTICLES PER CUBIC METERS</u>	<u>PARTICLES PER CUBIC FEET</u>

**TEST RESULTS**

**PASS/FAIL:** THIS HOOD IS CERTIFIED AS MEETING ISO CLASS 5 IN ACCORDANCE WITH ISO STANDARD 14644-1. THE MAXIMUM PARTICLE LIMIT FOR COMPLIANCE TO ISO CLASS 5 AT .5 MICRON SIZE IS 3520 PARTICLES PER CUBIC METER AND 100 PARTICLES PER CUBIC FOOT.

THE SAMPLING RATE IS 1 CFM. THE LOCATIONS SAMPLED WERE APPROXIMATELY SIX INCHES FROM THE FRONT AND BACK OF THE UNIT AND SPACED EVENLY FROM SIDE TO SIDE.

TESTING INSTRUMENTS	CALIBRATED	NIST #	ID # USED
LWS PARTICLE COUNTER HH 3013, 111160001	11-08-11	822/272103	(A1)
MET-ONE PARTICLE COUNTER 3313-LLD-SS, 050601026	10-04-11	822/271458	A2:

CERTIFIER:



000236

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE SERVICE REPORT**

CLIENT: **NECC** TEST #: **20275**  
 ADDRESS: ID #: **H0R2-2A**  
 CITY, STATE: MODEL #: **EG 8252**  
 CONTACT: SERIAL #: **91435**  
 TEL #: LOCATION: **CLN RM. 1**  
 TEST DATE: **6-22-12** NEW/USED: **USED**  
 RECALL DATE: **12-31-12** PASS/FAIL: **PASS**

**AIRFLOW VELOCITY**ACCEPTANCE RANGE: **90-110** FPM

R1: <b>87 98 93 97</b>	<b>94 100 96 99</b>
R2: <b>99 98 107 96</b>	<b>98 103 95 105</b>
R3: <b>104 97 106 106</b>	<b>97 109 107 102</b>
L: <b>87</b>	H: <b>109</b> AVG FPM: <b>100</b>

AIRFLOW GAUGE: **N/A** IOW: MOTOR SPEED **25/25%**

**TEST RESULTS**

**AIRFLOW VELOCITY:** PASSED, AVERAGE FPM IS WITHIN 90 +/- 10 FPM.  
**FILTER LEAK TEST:** PASSED, PENETRATION DOES NOT EXCEED 0.01% AT ANY POINT.  
**AIRFLOW SMOKE PATTERNS:** PASSED, NO SMOKE ENTERED THE WORK SURFACE;  
 THERE ARE NO DEAD SPOTS OR REFLUX OVER THE WORK SURFACE.  
**REFERENCE STANDARDS:** IES-RP-CC 002.2; IES-RP-CC 021.1

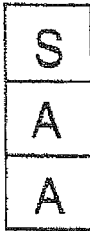
TESTING INSTRUMENTS:	CALIBRATED:	NIST #:	ID # USED:
AVM430-A, AVM430751001	4-12-11	822/272103	A1:
AVM430-A, AVM430803002	5-03-11	822/272103	A2:
AVM430-A, AVM431139001	9-20-11	822/249620	A3:
AXD620, AXD62114001	9-27-11	822/272103	A4:
ATI TDA-2G, 11119	11-08-11	822/272103	A5:

**COMMENTS:**

- ☒ NO ADJUSTMENTS REQUIRED AT THIS TIME.  
☐ HOOD FAILED; ACTION REQUIRED.  
☒ PREFILTER(S) WITHIN TOLERANCE. ☐ PREFILTER(S) DIRTY; CLEAN OR REPLACE.  
☐ INCREASED / DECREASED MOTOR BLOWER SPEED TO REBALANCE AIRFLOW.

CERTIFIER:

000237

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE  
 PARTICLE COUNT RECORDINGS**

CLIENT: **NECC**  
 ID #: **HORZ-2A**  
 MODEL #: **EG 8252**  
 SERIAL #: **91435**  
 LOCATION: **CCW Rm. 1**

TEST #: **20275**  
 TEST DATE: **6-22-12**  
 RECALL DATE: **12-31-12**  
 NEW/USED: **USED**  
 PASS/FAIL: **PASS**

**WORK SURFACE AREA**

B.5:                       
 O O O O  
 F.5:                       
 O O O O  
PARTICLES PER CUBIC METERS

                      
 O O O O  
                      
 O O O O  
PARTICLES PER CUBIC FEET

**TEST RESULTS**

**PASS**/FAIL: THIS HOOD IS CERTIFIED AS MEETING ISO CLASS 5 IN ACCORDANCE WITH ISO STANDARD 14644-1. THE MAXIMUM PARTICLE LIMIT FOR COMPLIANCE TO ISO CLASS 5 AT .5 MICRON SIZE IS 3520 PARTICLES PER CUBIC METER AND 100 PARTICLES PER CUBIC FOOT.

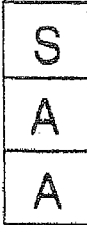
THE SAMPLING RATE IS 1 CFM. THE LOCATIONS SAMPLED WERE APPROXIMATELY SIX INCHES FROM THE FRONT AND BACK OF THE UNIT AND SPACED EVENLY FROM SIDE TO SIDE.

TESTING INSTRUMENTS	CALIBRATED	NIST #	ID # USED
LWS PARTICLE COUNTER HH 3013, 111160001	11-08-11	822/272103	<b>A1</b>
MET-ONE PARTICLE COUNTER 3313-LLD-SS, 050601026	10-04-11	822/271458	A2:

CERTIFIER:

*Paul O'Neill*

000238

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE SERVICE REPORT**

CLIENT: **NECC** TEST #: **20505**  
 ADDRESS: ID #: **H022-1**  
 CITY, STATE: MODEL #: **EG 8252**  
 CONTACT: SERIAL #: **95032**  
 TEL #: LOCATION: **CLW RM. 1**  
 TEST DATE: **6-22-12** NEW/USED: **USED**  
 RECALL DATE: **12-31-12** PASS/FAIL: **PASS**

**AIRFLOW VELOCITY**ACCEPTANCE RANGE: **90-110** FPM

R1: 100 95 102 96	96 103 99 102
R2: 91 86 98 95	94 90 94 88
R3: 98 105 106 99	103 110 99 107

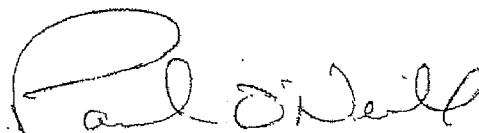
L: **86** H: **110** AVG FPM: **98**AIRFLOW GAUGE: **N/A** IOW: MOTOR SPEED **40/40** %**TEST RESULTS**

**AIRFLOW VELOCITY:** PASSED, AVERAGE FPM IS WITHIN 90 +/- 10 FPM.  
**FILTER LEAK TEST:** PASSED, PENETRATION DOES NOT EXCEED 0.01% AT ANY POINT.  
**AIRFLOW SMOKE PATTERNS:** PASSED, NO SMOKE ENTERED THE WORK SURFACE;  
 THERE ARE NO DEAD SPOTS OR REFLUX OVER THE WORK SURFACE.  
**REFERENCE STANDARDS:** IES-RP-CC 002.2; IES-RP-CC 021.1

TESTING INSTRUMENTS:	CALIBRATED:	NIST #:	ID # USED:
AVM430-A, AVM430751001	4-12-11	822/272103	A1:
AVM430-A, AVM430803002	5-03-11	822/272103	<b>A2</b>
AVM430-A, AVM431139001	9-20-11	822/249620	A3:
AXD620, AXD62114001	9-27-11	822/272103	A4:
ATI TDA-2G, 11119	11-08-11	822/272103	<b>A5</b>

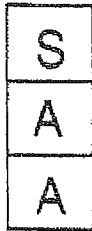
**COMMENTS:**

- ☒ NO ADJUSTMENTS REQUIRED AT THIS TIME.  
☐ HOOD FAILED; ACTION REQUIRED.  
☒ PREFILTER(S) WITHIN TOLERANCE. ☐ PREFILTER(S) DIRTY; CLEAN OR REPLACE.  
☐ INCREASED / DECREASED MOTOR BLOWER SPEED TO REBALANCE AIRFLOW.

**CERTIFIER:**




000239

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE**  
**PARTICLE COUNT RECORDINGS**

CLIENT: **NECC**  
 ID #: **H0R2-1**  
 MODEL #: **EG 8252**  
 SERIAL #: **95032**  
 LOCATION: **CLW Rm. 1**

TEST #: **20505**  
 TEST DATE: **6-22-12**  
 RECALL DATE: **12-31-12**  
 NEW/USED: **USED**  
 PASS/FAIL: **PASS**

**WORK SURFACE AREA**

B.5:   
 F.5:   
PARTICLES PER CUBIC METERS

  
  
PARTICLES PER CUBIC FEET

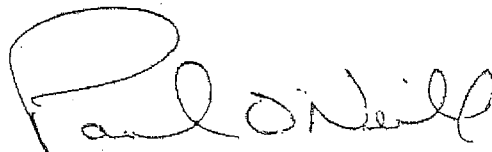
**TEST RESULTS**

**PASS** / FAIL: THIS HOOD IS CERTIFIED AS MEETING ISO CLASS 5 IN ACCORDANCE WITH ISO STANDARD 14644-1. THE MAXIMUM PARTICLE LIMIT FOR COMPLIANCE TO ISO CLASS 5 AT .5 MICRON SIZE IS 3520 PARTICLES PER CUBIC METER AND 100 PARTICLES PER CUBIC FOOT.

THE SAMPLING RATE IS 1 CFM. THE LOCATIONS SAMPLED WERE APPROXIMATELY SIX INCHES FROM THE FRONT AND BACK OF THE UNIT AND SPACED EVENLY FROM SIDE TO SIDE.

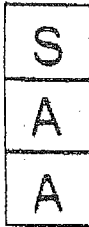
TESTING INSTRUMENTS	CALIBRATED	NIST #	ID # USED
LWS PARTICLE COUNTER HH 3013, 111160001	11-08-11	822/272103	<b>A1:</b>
MET-ONE PARTICLE COUNTER 3313-LLD-SS, 050601026	10-04-11	822/271458	A2:

CERTIFIER:





000240

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**BIOLOGICAL SAFETY CABINET SERVICE REPORT**

CLIENT:

NECC

TEST #:

20504

TEST DATE: 6-22-12

RECALL DATE: 12-31-12

ID #:

HOOD - 5

MODEL # SG 603A-HE

SERIAL #: 97602

LOCATION:

CLW RM. 1

NEW/USED: USED

PASS/FAIL: PASS

**SUPPLY AIRFLOWS**

RANGE:

AVG FPM:

PASS/FAIL:

(47-57) SR: 50 53 53 51 49 55 53

52

P

(47-57) SC: 49 52 49 57 54 50 54

51

P

(40-50) SF: 44 44 47 43 48 45 42

45

P

**EXHAUST AIRFLOWS**

EXHAUST RANGE:

258 - 285 FPM

DUCTED:

NO

CF: 3 LFM

R1: 264 264 273

EXH OP: 1.46 FT2

R2: 278 272 280

ACC OP: 3.89 FT2

R3: 270 259 261

MOTOR SPEED: 35 %

R4: 283 266 270

EXH AVG FPM:

270

EXH CFM:

394

FACE VELOCITY: 104

AIRFLOW GAUGE: .28

**TEST RESULTS**

FACE VELOCITY

PASSED, AVG FPM OF:

104

IS WITHIN ACCEPTANCE

RANGES OF: 100 - 110 FPM.

**AIRFLOW SMOKE PATTERNS** PASSED, NO SMOKE ESCAPED FROM THE CABINET, THERE ARE NO DEAD SPOTS OR REFLUX OVER THE WORK SURFACE.

**FILTER LEAK TEST** PASSED, PENETRATION DOES NOT EXCEED 0.01 % AT ANY POINT.

**REFERENCE STANDARD** NATIONAL SANITATION FOUNDATION #49-2010

**TESTING INSTRUMENTS****CALIBRATED****NIST #****ID # USED**

AVM430-A, AVM430751001

4-12-11

822/272103

A1:

AVM430-A, AVM430803002

5-03-11

822/272103

A2:

AVM430-A, AVM431139001

9-20-11

822/272103

A3:

AXD620, AXD621140001

9-27-11

822/272103

A4:

ATI TDA-2G, 11119

11-08-11

822/272103

A5:

HH 3013, 111160001

11-08-11

822/272103

A6:

3313LL, 050601026

10-04-11

822/272103

A7:

**COMMENTS:**

☒ NO ADJUSTMENTS REQUIRED AT THIS TIME. ☐ HOOD FAILED.

☐ EXHAUST OPERATING PROPERLY.

☒ ALARM OPERATING PROPERLY.

☒ ADJUSTED / ZEROED GAUGE.

☐ INCREASED / DECREASED MOTOR BLOWER SPEED TO REBALANCE AIRFLOW.

CERTIFIER:



000241

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**BIOLOGICAL SAFETY CABINET****PARTICLE COUNT RECORDINGS**

CLIENT:	NECC	TEST #:	20504
ID #:	Hood - 5	TEST DATE:	6-22-12
MODEL #:	SG-603A-HE	RECALL DATE:	12-31-12
SERIAL #:	97602	NEW/USED:	used
LOCATION:	CLW Rm. 1	PASS/FAIL:	PASS

**WORK SURFACE AREA**

B.S:                       
 F.S:                       
PARTICLES PER CUBIC METERS

                      
                      
PARTICLES PER CUBIC FEET

**TEST RESULTS**

**PASS** / FAIL: THIS HOOD IS CERTIFIED AS MEETING ISO CLASS 5 IN ACCORDANCE WITH ISO STANDARD 14644-1. THE MAXIMUM PARTICLE LIMIT FOR COMPLIANCE TO ISO CLASS 5 AT .5 MICRON SIZE IS 3520 PARTICLES PER CUBIC METER AND 100 PARTICLES PER CUBIC FOOT.

THE SAMPLING RATE IS 1 CFM. THE LOCATIONS SAMPLED WERE APPROXIMATELY SIX INCHES FROM THE FRONT AND BACK OF THE UNIT AND SPACED EVENLY FROM SIDE TO SIDE.

TESTING INSTRUMENTS	CALIBRATED	NIST #	ID # USED
LWS PARTICLE COUNTER HH 3013, 111160001	11-08-11	822/272103	A1:
MET-ONE PARTICLE COUNTER 3313-LLD-SS, 050601026	10-04-11	822/271458	A2:

CERTIFIER:



000242

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
Ashland, MA 01721  
(508) 881-7100  
(508) 881-7105 FAX  
1-800-287-5252 MA ONLY

**BIOLOGICAL SAFETY CABINET SERVICE REPORT**

CLIENT: **NECC**  
TEST #: **20512** TEST DATE: **6-22-12** RECALL DATE: **12-31-12**  
ID #: **CHEM-5** MODEL #: **56603A** SERIAL #: **88020**  
LOCATION: **CLN RM. 1** NEW/USED: **USED** PASS/FAIL: **PASS**

**SUPPLY AIRFLOWS**

RANGE:		AVG FPM:	PASS/FAIL:
(50-60)	SR: 49.54 51.51 56.54 58	53	P
(50-60)	SC: 53.56 52.50 54.50 56	53	P
(49-59)	SF: 51.54 58.52 55.52 54	54	P

**EXHAUST AIRFLOWS**

EXHAUST RANGE:		DUCTED:
<b>253 - 280</b> FPM		<b>YES</b>
R1: 275	296 262	CF: 5 CFM
R2: 266	286 250	EXH OP: 1.46 FT2
R3: 296	270 257	ACC OP: 3.59 FT2
R4: 253	268 269	MOTOR SPEED: 45%
EXH AVG FPM: <b>267</b>	EXH CFM: <b>390</b>	FACE VELOCITY: <b>105</b>
		AIRFLOW GAUGE: <b>0.25</b>

**TEST RESULTS**

FACE VELOCITY PASSED, AVG FPM OF: **105** IS WITHIN ACCEPTANCE  
RANGES OF: **100-110** FPM.  
AIRFLOW SMOKE PATTERNS PASSED, NO SMOKE ESCAPED FROM THE CABINET, THERE  
ARE NO DEAD SPOTS OR REFLUX OVER THE WORK SURFACE.  
FILTER LEAK TEST PASSED, PENETRATION DOES NOT EXCEED 0.01 % AT ANY POINT.  
REFERENCE STANDARD NATIONAL SANITATION FOUNDATION #49-2010

TESTING INSTRUMENTS	CALIBRATED	NIST #	ID # USED
AVM430-A, AVM430751001	4-12-11	822/272103	A1:
AVM430-A, AVM430803002	5-03-11	822/272103	A2:
AVM430-A, AVM431139001	9-20-11	822/272103	A3:
AXD620, AXD621140001	9-27-11	822/272103	A4:
ATI TDA-2G, 11119	11-08-11	822/272103	A5:
HH 3013, 111160001	11-08-11	822/272103	A6:
3313LL, 050601026	10-04-11	822/272103	A7:

**COMMENTS:**

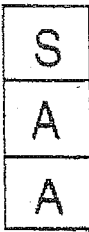
☒ NO ADJUSTMENTS REQUIRED AT THIS TIME. ☐ HOOD FAILED.  
☒ EXHAUST OPERATING PROPERLY. ☒ ALARM OPERATING PROPERLY.  
☒ ADJUSTED ZEROED GAUGE.  
☐ INCREASED / DECREASED MOTOR BLOWER SPEED TO REBALANCE AIRFLOW.

CERTIFIER:

*Paul O'Neill*

Certification and Repair of Clean Rooms and Laminar Flow Equipment

000243

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**BIOLOGICAL SAFETY CABINET**  
**PARTICLE COUNT RECORDINGS**

CLIENT: NECC  
 ID #: CHemo-8  
 MODEL #: SG 603A  
 SERIAL #: 88020  
 LOCATION: CLN RM. 1

TEST #: 20572  
 TEST DATE: 6-22-12  
 RECALL DATE: 12-31-12  
 NEW/USED: USED  
 PASS/FAIL: PASS

**WORK SURFACE AREA**

B.5:



F.5:

PARTICLES PER CUBIC METERSPARTICLES PER CUBIC FEET**TEST RESULTS**

**PASS/FAIL:** THIS HOOD IS CERTIFIED AS MEETING ISO CLASS 5 IN ACCORDANCE WITH ISO STANDARD 14644-1. THE MAXIMUM PARTICLE LIMIT FOR COMPLIANCE TO ISO CLASS 5 AT .5 MICRON SIZE IS 3520 PARTICLES PER CUBIC METER AND 100 PARTICLES PER CUBIC FOOT.

THE SAMPLING RATE IS 1 CFM. THE LOCATIONS SAMPLED WERE APPROXIMATELY SIX INCHES FROM THE FRONT AND BACK OF THE UNIT AND SPACED EVENLY FROM SIDE TO SIDE.

TESTING INSTRUMENTS	CALIBRATED	NIST #	ID # USED
LWS PARTICLE COUNTER HH 3013, 111160001	11-08-11	822/272103	<u>A1</u>
MET-ONE PARTICLE COUNTER 3313-LLD-SS, 050601026	10-04-11	822/271458	A2:

CERTIFIER:

000244

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE SERVICE REPORT**

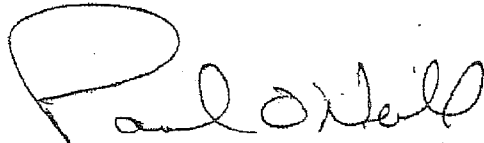
CLIENT: **NECC** TEST #: **18850**  
 ADDRESS: ID #:   
 CITY, STATE: MODEL #: **FS 10200**  
 CONTACT: SERIAL #: **05-S-13-06**  
 TEL #: LOCATION: **QA LAB**  
 TEST DATE: **6-22-12** NEW/USED: **USED**  
 RECALL DATE: **12-31-12** PASS/FAIL: **PASS**

**AIRFLOW VELOCITY**ACCEPTANCE RANGE: **60-90** FPMR1: **84 79 83 80**R2: **86 82 85 81**R3: **79 86**L: **79** H: **86** AVG FPM: **83**AIRFLOW GAUGE: **N/A**

IOW:

MOTOR SPEED: **40 %****TEST RESULTS****AIRFLOW VELOCITY:** PASSED, AVERAGE FPM IS WITHIN 90 +/- 10 FPM.**FILTER LEAK TEST:** PASSED, PENETRATION DOES NOT EXCEED 0.01% AT ANY POINT.**AIRFLOW SMOKE PATTERNS:** PASSED, NO SMOKE ENTERED THE WORK SURFACE;  
THERE ARE NO DEAD SPOTS OR REFLUX OVER THE WORK SURFACE.**REFERENCE STANDARDS:** IES-RP-CC 002.2; IES-RP-CC 021.1**TESTING INSTRUMENTS: CALIBRATED: NIST #: ID # USED:**

AVM430-A, AVM430751001	4-12-11	822/272103	A1:
AVM430-A, AVM430803002	5-03-11	822/272103	A2:
AVM430-A, AVM431139001	9-20-11	822/249620	A3:
AXD620, AXD62114001	9-27-11	822/272103	A4:
ATI TDA-2G, 11119	11-08-11	822/272103	A5:

**COMMENTS:**☒ NO ADJUSTMENTS REQUIRED AT THIS TIME.☐ HOOD FAILED; ACTION REQUIRED.☐ PREFILTER(S) WITHIN TOLERANCE. ☐ PREFILTER(S) DIRTY; CLEAN OR REPLACE.☐ INCREASED / DECREASED MOTOR BLOWER SPEED TO REBALANCE AIRFLOW.**CERTIFIER:**


000245

000246

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE SERVICE REPORT**CLIENT: **NECC**TEST #: **18837**

ADDRESS:

ID #:

CITY, STATE:

MODEL #: **FS 10200**

CONTACT:

SERIAL #: **05-S-13-07**

TEL #:

LOCATION: **QA LAB**TEST DATE: **6-22-12**NEW/USED: **USED**RECALL DATE: **12-31-12**PASS/FAIL: **PASS****AIRFLOW VELOCITY**ACCEPTANCE RANGE: **60-90** FPMR1: **78 85 90 86**R2: **81 73 77 81**

R3:

L: **73** H: **90** AVG FPM: **81**

AIRFLOW GAUGE:

LOW:

MOTOR SPEED: **40** %**N/A****TEST RESULTS****AIRFLOW VELOCITY:** PASSED, AVERAGE FPM IS WITHIN 90 +/- 10 FPM.**FILTER LEAK TEST:** PASSED, PENETRATION DOES NOT EXCEED 0.01% AT ANY POINT.**AIRFLOW SMOKE PATTERNS:** PASSED, NO SMOKE ENTERED THE WORK SURFACE; THERE ARE NO DEAD SPOTS OR REFLUX OVER THE WORK SURFACE.**REFERENCE STANDARDS:** IES-RP-CC 002.2; IES-RP-CC 021.1**TESTING INSTRUMENTS:** CALIBRATED: NIST #: ID # USED:

AVM430-A, AVM430751001	4-12-11	822/272103	A1:
AVM430-A, AVM430803002	5-03-11	822/272103	A2:
AVM430-A, AVM431139001	9-20-11	822/249620	A3:
AXD620, AXD62114001	9-27-11	822/272103	A4:
ATI TDA-2G, 11119	11-08-11	822/272103	A5:

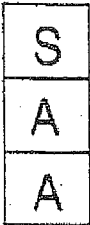
**COMMENTS:**☒ NO ADJUSTMENTS REQUIRED AT THIS TIME.☐ HOOD FAILED; ACTION REQUIRED.☐ PREFILTER(S) WITHIN TOLERANCE. ☐ PREFILTER(S) DIRTY; CLEAN OR REPLACE.☐ INCREASED / DECREASED MOTOR BLOWER SPEED TO REBALANCE AIRFLOW.

CERTIFIER:

**Paul O'Neill**



000247

**Scientific Air Analysis, Inc.**

47 Fatima Drive  
 Ashland, MA 01721  
 (508) 881-7100  
 (508) 881-7105 FAX  
 1-800-287-5252 MA ONLY

**UNIDIRECTIONAL FLOW CLEAN-AIR DEVICE SERVICE REPORT**

CLIENT: *Necc* TEST #: *18664*  
 ADDRESS: ID #:  
 CITY, STATE: MODEL #: *FS 10400*  
 CONTACT: SERIAL #: *05-S-13-08*  
 TEL #: LOCATION: *PA LAB*  
 TEST DATE: *6-22-12* NEW/USED: *USED*  
 RECALL DATE: *12-31-12* PASS/FAIL: *PASSED*

**AIRFLOW VELOCITY**ACCEPTANCE RANGE: *60-90* FPMR1: *88 90 84 83 79*R2: *85 86 84 87 95*R3: *90 88 84 79 83*L: *83* H: *95* AVG FPM: *86 - 209 CFM*AIRFLOW GAUGE: *N/2* LOW: MOTOR SPEED: *5* %*8" x 44" = 2.44 FT<sup>2</sup>***TEST RESULTS****AIRFLOW VELOCITY:** PASSED, AVERAGE FPM IS WITHIN 90 +/- 10 FPM.**FILTER LEAK TEST:** PASSED, PENETRATION DOES NOT EXCEED 0.01% AT ANY POINT.**AIRFLOW SMOKE PATTERNS:** PASSED, NO SMOKE ENTERED THE WORK SURFACE;  
THERE ARE NO DEAD SPOTS OR REFLUX OVER THE WORK SURFACE.**REFERENCE STANDARDS:** IES-RP-CC 002.2; IES-RP-CC 021.1**TESTING INSTRUMENTS: CALIBRATED: NIST #: ID # USED:**

AVM430-A, AVM430751001	4-12-11	822/272103	A1:
AVM430-A, AVM430803002	5-03-11	822/272103	A2:
AVM430-A, AVM431139001	9-20-11	822/249620	<u>A3:</u>
AXD620, AXD62114001	9-27-11	822/272103	A4:
ATI TDA-2G, 11119	11-08-11	822/272103	<u>A5:</u>

**COMMENTS:**☐ NO ADJUSTMENTS REQUIRED AT THIS TIME.☐ HOOD FAILED; ACTION REQUIRED.☐ PREFILTER(S) WITHIN TOLERANCE. ☐ PREFILTER(S) DIRTY; CLEAN OR REPLACE.☒ INCREASED / DECREASED MOTOR BLOWER SPEED TO REBALANCE AIRFLOW.**CERTIFIER:***Steve O'Neil*